



ALABAMA EMERGENCY MANAGEMENT AGENCY HAZARD MITIGATION GRANT PROGRAM WIND RETROFIT

PROJECT APPLICATION

Applicant Crenshaw County

Project Location Highway 331, Highland Home, Crenshaw County, AL

Project Title (descriptive) Shuttering of Middle School

Estimated Project Cost (total) \$74,200

THIS SECTION FOR STATE USE ONLY

FEMA- _____ -DR- _____

Standard HMGP or
HMGP 5% Initiative
FMA
Other _____

Initial Submission or
Resubmission

Completeness Checklist
State 409 Plan
Eligible Applicant

☐ B/C Analysis

Project Type(s)
Acquisition/Demolition
Acquisition/Relocation
Elevation
Drainage
Wind Retrofit
Tornado
Seismic Retrofit
Other _____

Community NFIP Status:

Participating Community
ID #: _____

CRS Participant
In Good Standing
Sanctioned

☐ Regulatory Floodway
☐ Coastal V-Zone

State Application ID _____

Date Received _____

State Reviewer _____

Reviewer Phone # _____

Reviewer Fax # _____

Reviewer Email: _____

This application is for all Federal Emergency Management Agency (FEMA Region IV) Hazard Mitigation Grant Program (HMGP) proposals. Please complete ALL sections and provide the documents requested. If you require technical assistance with this application, please contact your State Emergency Management Mitigation Division at (205)280-2476.

A. To Fill Out This Application: complete all sections of the main application, if the project involves acquisition, elevation or engineered drainage projects fill out the following supplemental worksheets:

- **Acquisition Worksheet:** Acquisition Projects only -- one per structure
- **Elevation Worksheet:** Elevation Projects only -- one per structure
- **Drainage Worksheet:** Drainage Projects only

B. Applicant Information

1. **Applicant (Organization)** Crenshaw County EMA

2. **Applicant Type**

☒ State or Local Government ☐ Recognized Indian Tribe ☐ Private Non-Profit

3. County / Counties Crenshaw County

4. State Legislative district(s) Congressional District(s)

5. Tax I.D. Number FIPS Code (if known) Duns Number

6. **Point of Contact**

☐ Ms. ☒ Mr. ☐ Mrs. First Name School Last Name Principal

Title Principal

Street Address 19434 Montgomery Highway, US Highway 331

City Highland Home State AL Zip Code 36041

Telephone (334) 537-4379 Fax () -

Email Address (if available)

7. **Application Prepared by:** ☒ Ms. ☐ Mr. ☐ Mrs. First Name Paper Last Name Work

Title Paper Shuffler Telephone (334) 335-6568 Fax () -

8. **Authorized Applicant Agent**

☐ Ms. ☒ Mr. ☐ Mrs. First Name County Last Name Commission

Title County Commissioner Telephone (334) 335-6568 Fax () -

Street Address PO Box 227, County Courthouse

City Luverne State AL Zip Code 36049-0227

Email Address (if available)

Date 11/1/05 Signature _____

NOTE: *If your project is approved, work must begin within 90 days of the obligation of funds*

I. History of Hazards / Damages in the Area to be Protected*

In this section describe all past damages from hazardous events (include name of storms if applicable) in the project area. Include Presidentially declared disasters as well as events that did not result in a Presidential declaration. Do not list county-wide or community-wide damages. Damages described must be site specific.

A. Overview of Past Damages

Provide a detailed past history of damages in the project area, including direct and indirect costs. Include information for as many past incidents as possible. Attach any supporting documents, i.e. proofs of loss, PW's, force account logs. Direct costs should include damages to structures and infrastructure in the project area as a result of the hazard. Indirect costs should include the cost to the local government to respond to victims of the hazard in the project area, any interruption to local businesses, and losses of public services.

Over the past twenty-five (25) years the Highland Home School building has been damaged during windstorm events by high winds in 1985, 1993, 2002 and 2004. The damages are totally due to the existing windows not designed to withstand winds greater than 60 mph.

*** For Acquisitions and Elevations, provide an overview in this section and specific damages to each property in the Individual Property Worksheets.**

Date	Level of Event	Damages	Indirect costs (describe)
<i>[e.g. 10/7/89]</i>	<i>50 year flood</i>	<i>Total of \$195,000 in damages to 16 homes in project area</i>	<i>Emergency Services Evacuation of 58 people.]</i>
<i>e.g. 8/18/92</i>	<i>100 year flood</i>	<i>Total of \$1,895,000 in damages to 23 homes in project area</i>	<i>Emergency Services Evacuation of 108 people.]</i>
Aug 1985	90 mph winds	Broken windows, damaged equip. and water damage Damage equal to \$123,000	none
Sep 1993	62 mph winds	Broken tree limbs, broken fence Damage equal to \$11,000	debris pickup
Oct 2002	81 mph winds	Broken windows, interior water damage Damage equal to \$87,000	none
Sep 2004	110mph winds	Broken windows, interior water damage, Equipment damage, and broken trees Damage equal to \$145,000	School closed for two days

II. Project Description

A. Project Description / Protection Provided

Describe, in detail, the proposed project. Also, explain how the proposed project will solve the problem(s) and provide the level(s) of protection described in Section B. If any other projects are underway or proposed in the project area, please describe. Also describe any planned, future development in the project area. Please include building code requirements for new development and substantial improvements in the community.

The proposed mitigation project is for protection of the Highland Home School building; a publicly-owned facility which serves approximately 846 students with 90 faculty and staff in the Highland Home Community. The Highland Home School building was built in 1978 and was built to the 1978 Southern Building Code Standards. The design wind speed requirements for this building code was 110 mph. Unfortunately the windows installed at the time of construction are only capable of withstanding winds of 60 mph or less. Highland Home School is located in the northern end of Crenshaw County. A detailed map, showing the location of the school within the community, is attached. Although the school building is located outside of the 500 year floodplain, it has sustained wind damage from several hurricanes and tropical storms due to its close proximity to the Gulf of Mexico (about 100 miles inland). A list of these windstorm events, along with a description of the damages and actual repair costs associated with each event, is attached.

An analysis of windstorm events indicates that typical wind damages at the school have led to damages of equipment and costly disruptions to school operations. Over the past twenty-five (25) years, the school building has been damaged by high wind events in 1985, 1993, 2002 and 2004.

This project proposes to reduce future wind damage at the Highland Home School building by installing shutters to prevent contents damage and functional downtime caused by wind-driven rain entering through broken windows.

The shutters are electric driven with the capability of being manually extended or retracted if electric power has failed. The shutters are capable of withstanding winds equal to or slightly greater than the building envelope.

B. Hazards to be Mitigated / Level of Protection

1. Select the type of hazards the proposed project will mitigate:

☐ Flood ☒ Wind ☐ Seismic ☐ Other (list) _____

2. Fill in the level of protection the proposed project will provide (e.g. 23 structures protected against the 100-year (1%) flood. List data in Flood Levels (10,25, 50, 100...) mph winds or Mercalli Scale Earthquake (1-12)

One structure protected against the 110 mph wind event

_____ structures protected against the _____

_____ structures protected against the _____

_____ structures protected against the _____

3. Engineered Projects Only (e.g. Drainage Improvements)

Include (attach to this page) **ALL** engineering calculations used to determine the above level of protection.

The following documents are attached:

Engineering analysis and design calculations from ASAP Engineering, LLC are attached. A registered Professional Engineer licensed by the State of Alabama has reviewed the preliminary calculations as documented by their professional seal and signature.

4. Useful life of the project

Proposed project will provide protection against the hazard(s) above for 25 years.

III. Project Location

Fully describe the location of the proposed project.

A. Site

1. Physical Location

Describe the area and/or population affected/protected by this project, include the location (street numbers or neighborhoods, city, county, zip codes, latitude/longitude).

19434 Montgomery Highway, US Hwy 331, Highland Home, AL 36041 Lat: 31.953472 / Long: 86.313472

2. Population Affected

Provide the number of each type of structure (listed below) in the project area. Include **all** structures in project area.

- _____ residential properties
- _____ businesses / commercial properties
- _____ public buildings
- One schools / hospitals / houses of worship

B. Legible Copy of Flood Insurance Rate Map (FIRM) showing Project Site

☒ Attach a copy of the panel(s) from the FIRM, and, if available, the Floodway Map, (along With the appropriate flood profile and discharge tables from the community FIS) with the project site and structures marked on the map (FIRMs are typically available from your local floodplain administrator who may be located in the planning, zoning, or engineering office. Maps can also be ordered from the Map Service Center at 1-800-358-9616. For more information about FIRMs, contact your local agencies or visit the FIRM site on the FEMA WebPage at <http://www.fema.gov/home/MSC/hardcopy.htm>).

Using the FIRM, determine the flood zone(s) of the project site (Check all zones in the project area).

- ☐ VE or V 1-30
- ☐ AE or A 1-30
- ☐ AO or AH
- ☐ A (no base flood elevation given)
- ☐ B or X (shaded)
- ☒ C or X (unshaded)
- ☐ Floodway
- ☐ Coastal Barrier Resource Act (CBRA) Zone
(Federal regulations strictly limit Federal funding for projects in this Zone; please coordinate with your state agency before submitting an application for a CBRA Zone project)

☐ **If the FIRM for your area is not published**, please attach a copy of the Flood Hazard Boundary Map (FHBM) for your area, with the project site and structures marked on the map

Project Location Continued**C. City or County Map with Project Site and Photographs (All Maps Are Mandatory)**

- ☒ Attach a copy of a city or county scale map (large enough to show the entire project area) with the project site and structures marked on the map.
- ☒ USGS 1:24,000 topo map with project site marked on the map.
- ☐ For **acquisition** or **elevation** projects, include a copy of the Parcel Map (Tax Map, Property Identification Map, etc.) with each property in the project clearly marked on the map. Use SAME ID number as in the property worksheet.
- ☒ Attach overview photographs (2 copies each) for each project site. The photographs should be representative of the project area, including any relevant streams, creeks, rivers, etc. and drainage areas which affect the project site or will be affected by the project.

Attach 2 copies of each site photograph here

Clearly label the back of each photo

Notes: Reference attached project site photographs

IV. Scope of Work / Budget

In this section, provide the details of all costs of the project. As this information is used for the Benefit-Cost Analysis, reasonable cost estimates are essential. As project administrative costs are calculated on a sliding scale, **do not** include this in the budget. List all items and costs in line item fashion.

Do not include contingency costs in the budget.

A. Materials

Item	Dimension	Quantity	Cost per Unit	Total Cost
Roll-Down Metal Shutters		1,800	\$20	\$36,000
Electric Motors and Controls		4	\$2,000	\$ 8,000

B. Labor (Include equipment costs -- please indicate all "soft" or in-kind matches)

Description	Quantity	Rate	Cost
Mobilization			\$ 4,000
Shutter Installation	1800	\$10	\$18,000
Motor and Control Installation	4	\$1,000	\$ 4,000

C. Fees Paid Include any other costs associated with the project

Description of Task	Hours	Rate	Cost
Engineering (6%)			\$ 4,200.00

Total Estimated Project Cost \$74,200

D. Funding Sources (round figures to the nearest dollar) The maximum FEMA share for HMGP projects is 75%. The other 25% can be made up of State and Local funds as well as in-kind services. HMGP funds may be packaged with other Federal funds, but other Federal funds (except for Federal funds which lose their Federal identity at the State level – such as CDBG, ARS, HOME) may not be used for the State or Local match.

Estimated FEMA Share \$55,650 75 % of Total

Non-Federal Share

Estimated Local Share \$18,550 25 % of Total
(Include In-Kind Value)

List Funding Sources Cash

Estimated State Share \$ _____ % of Total

List Funding Sources _____

Estimated Other Agency Share

\$ _____ % of Total

Identify Other Non-Federal Agency _____

Other Non-FEMA Federal Funds \$ _____ **Do Not Include In Total**

Identify Other Federal Agency _____

Scope of Work/ Budget Continued**E. Project Milestones** List the major milestones in this project:

<u>Milestone</u>	<u>Number of Days to Complete</u>
<i>[e.g. Demolition of 6 structures and removal of debris]</i>	<i>14 days]</i>
<u>Invitation for bids and Award</u>	<u>30 days</u>
<u>Permitting</u>	<u>30 days</u>
<u>Mobilization</u>	<u>20 days</u>
<u>Installation</u>	<u>90 days</u>

Recognizing that some of the activities above can happen concurrently, the total time to complete this project is estimated at 120 days

F. Benefit Cost Ratio: 1.06

Alternative Actions

This application cannot be reviewed if this section is incomplete.

List **two feasible** alternative projects to mitigate the hazards faced in the project area. One alternative is the "No Action Alternative" (section A).

A. No Action Alternative

Discuss the impacts on the project area if no action is taken.

No action will result in more repair of damage due to wind events.

B. Other Feasible Alternative

Discuss a feasible alternative to the proposed project. This could be an entirely different mitigation method or a significant modification to the design of the current proposed project. Please include scope of work, engineering details (if applicable), estimated budget and the impacts of this alternative.

1. Other Feasible Project Description and Scope of Work

Describe, in detail, the alternative project. Also, explain how the alternative project will solve the problem(s) / provide protection from the hazard(s).

Instead of shuttering, laminated glass could provide protection. However, if laminated glass is used, the window frames will need to be resized.

2. Other Feasible Project Location

- ☐ Attach a map or diagram showing the alternative site in relation to the proposed project site.
- ☐ Photographs (2 copies) of alternative site

Attach 2 copies of each photograph here

Clearly label the back of each photo.

Alternative Actions Continued

- C. Funding Sources (round figures to the nearest dollar)** The maximum FEMA share for HMGP projects is 75%. The other 25% can be made up of State and Local funds as well as in-kind services. HMGP funds may be packaged with other Federal funds, but other Federal funds (except for Federal funds which lose their Federal identity at the State level – such as CDBG, ARS, HOME,) may not be used for the State or Local match.

Estimated FEMA Share **\$67500** 75 % of Total

Non-Federal Share

Estimated Local Share **\$22500** 25 % of Total
(Include In-Kind Value)

List Funding Sources Cash

Estimated State Share \$ _____ _____ % of Total

List Funding Sources _____

Estimated Other Agency Share \$ _____ _____ % of Total

List Other Non-Federal Agency _____

Other Non-FEMA Federal Funds \$ _____ **Do Not Include In Total**

List Other Federal Agency _____

D. Impacts of Other Feasible Alternative Project

Discuss the impact of this alternative on the project area. Include comments on these issues: Environmental Justice; Endangered Species; Wetlands; Hydrology (Upstream and Downstream Impacts); Floodplain/ Floodway; Historic Issues; Hazardous Materials.

None

VI. Environmental Documents

The applicant ***must*** provide the following environmental documentation to FEMA before starting construction activity **or** jeopardize project funding.

The Following Types Of Projects Do Not Require Environmental Documentation:

- Development of Mitigation Plans
- Inspection and monitoring activities
- Studies involving only staff time and funding
- Training activities using existing facilities

Other projects require certain environmental documentation depending upon the project type and its potential effects on the physical, biological and built environment. The various types of projects and their required environmental documentation follow:

Warning Systems, Shutters, And Communication Projects

- Coordination from the State Historic Preservation Officer (SHPO) regarding cultural resources (archeological and historical). ***Provide the SHPO with:***
 - a description of the project referencing structure/site addresses
 - a map of sufficient scale and detail that shows the project site and surrounding project area (Area of Potential Effects)
 - several original photographs of the project site and adjacent area/structures
- * See also - additional documentation section

Acquisition/Demolition And Elevation Projects Residential Sites Require

- Coordination from the State Historic Preservation Officer (SHPO) regarding cultural resources (archeological and historical). ***Provide the SHPO with:***
 - a description of the project referencing structure/site addresses
 - a map of sufficient scale and detail that shows the project site and surrounding project area (Area of Potential Effects)
 - several original photographs of the project site and adjacent area/structures
- Commercial/Industrial Sites also require:
 - Coordination from the State Environmental Protection Agency (or equivalent) regarding hazardous waste and toxic materials.
- * See also - additional documentation section

Acquisition/Relocation Projects (Residential Only)
And
Stormwater Management Projects
(Road/Bridge/Culvert Repair, Detention Ponds And Drainage)

Coordination from the following Federal and State agencies:

- State Historic Preservation Officer (SHPO) regarding cultural resources (archeological and historical). ***Provide the SHPO with:***
 - several original photographs of the project site and adjacent area/structures
- State Environmental Protection Agency (or equivalent) regarding required permits for erosion and sediment control, stormwater management, water and air quality
- State Environmental Protection Agency (or equivalent) regarding hazardous and toxic materials
- U.S. Army Corp of Engineers District regarding Individual (404 Wetlands) Permit or approval under an existing Nationwide Permit
- U.S. Fish and Wildlife Service regarding Federal Threatened and Endangered Species
- State Fish and Game Agency regarding fish and wildlife
- State Natural Heritage Agency regarding State Threatened and Endangered Species

Provide the following documentation to each agency listed above:

- a description of the project referencing structure/site addresses
- a map of sufficient scale and detail that shows the project site and surrounding project area (Area of Potential Effects)

* See also - additional documentation section

Additional Documentation

- *If the project involves five or more acres of land* – provide a NPDES permit from the U.S. Environmental Protection Agency
- *If the project is located outside of town/city limits* - provide documentation from the USDA National Resource Conservation Service (Prime, Unique or other Important Farmlands).
- *If the project is located in a coastal area* - provide letters from the:
 - State Coastal Management Agency (Coastal Zone Management Act)
 - U.S. Fish and Wildlife Service (Coastal Barrier Resources Act and Coastal Barrier Improvement Act)
 - U.S. Dept. of Commerce National Marine Fisheries Service (Commercial fishing and breeding grounds)
- *If the project will affect any low-income or minority groups in the project area* – provide applicable Environmental Justice information (census, economics, housing and employment).

FEMA Can Provide Additional Environmental Technical Assistance. Your State Hazard Mitigation Officer Can Provide FEMA Environmental Points Of Contact.

Additional Documentation and/or Site Visits May Be Required For Final Environmental Review

Attach any continuations or additional items to this page

VII MAINTENANCE AGREEMENT

All applicants whose proposed project involves the retrofit or modification of existing public property or whose proposed project would result in the public ownership or management of property, structures, or facilities, must first sign the following agreement prior to submitting their application to FEMA.

(NOTE: those applicants whose project only involves the retrofitting, elevation, or other modification to private property where the ownership will remain private after project completion DO NOT have to complete this form.)

The Community (City, Town, County) of Highland Home, State of AL, hereby agrees that if it receives any Federal aid as a result of the attached project application, it will accept responsibility, at its own expense if necessary, for the **routine** maintenance of any real property, structures, or facilities acquired or constructed as a result of such Federal aid. Routine maintenance shall include, but not be limited to, such responsibilities as keeping vacant land clear of debris, garbage, and vermin; keeping stream channels, culverts, and storm drains clear of obstructions and debris; and keeping detention ponds free of debris, trees, and woody growth.

The purpose of this agreement is to make clear the Subgrantee's maintenance responsibilities following project award and to show the Subgrantee's acceptance of these responsibilities. It does not replace, supercede, or add to any other maintenance responsibilities imposed by Federal law or regulation and which are in force on the date of project award.

Signed by County Commission (printed or typed *name of signing official*) the duly authorized County Commissioner (title) of Crenshaw County (name of applicant),
this Twenty-fifth (day) of October (month), 2005 (year).

Signature _____

VIII Applicants Certification

Each applicant whose proposed project involves elevation of one or more residential structures or relocation or acquisition and demolition of such structures shall sign the following certification:

I, _____, _____, of

(print name) *(title)*
_____ certify that all owners of property listed in
this _____
(town, city, or county organization)
have been contacted and have voluntarily expressed a willingness to participate in the proposed project. Any structures elevated or retrofitted shall be covered by flood insurance for the life of the structure.

Additionally, the _____ understands that any and all
(town, city, or county organization)
property acquired under the Hazard Mitigation Grant Program will be maintained by the
applicant as openspace. All property acquired in this project will be governed by the
following guidelines from the Code of Federal Regulations, Section 206.434(d):

- (d) Property acquisition and relocation requirements. A project involving property acquisition or the relocation of structures and individuals is eligible for assistance only if the applicant enters an agreement with the FEMA Regional Director that provides assurances that:
1. The following restrictive covenants shall be conveyed in the deed to any property acquired, accepted, or from which structures are removed (hereafter called in section (d) the property):
 - (i) The property shall be dedicated and maintained in perpetuity for uses compatible with open space, recreational, or wetlands management practices; and
 - (ii) No new structure(s) will be built on the property except as indicated below:
 - (A) A public facility that is open on all sides and functionally related to a designated open space or recreational use;
 - (B) A rest room; or
 - (C) A structure that is compatible with open space, recreational, or wetlands management usage and proper floodplain management policies and practices, which the Director approves in writing before the construction of the structure begins.

- (iii) After completion of the project, no application for additional disaster assistance will be made for any purpose with respect to the property to any Federal entity or source, and no Federal entity or source will provide such assistance.
2. In general, allowable open space, recreational, and wetland management uses include parks for outdoor recreational activities, nature reserves, cultivation, grazing, camping (except where adequate warning time is not available to allow evacuation), temporary storage in the open of wheeled vehicles which are easily movable (except mobile homes), unimproved, previous (sic; should read "pervious") parking lots, and buffer zones.
3. Any structures built on the property according to paragraph (d)(1) of this section, shall be floodproofed or elevated to the Base Flood Elevation plus one foot of freeboard.

Any other use of acquired structures or properties must be approved by both the State and Federal Emergency Management Agencies' Directors. (Please contact your State Hazard Mitigation Officer for further details)

Certified this _____ day of _____, _____.
(day) (month) (year)

By _____
(Signature of responsible official)

Wind Retrofit Worksheet - HMGP only**WIND RETROFIT PROJECTS ONLY**

Please fill out this worksheet completely. A separate worksheet is required for each structure to be wind retrofitted.

✓ Attach photographs (two copies) of each side of the building to be retrofitted.

✓ Provide evidence that the shutter system complies with the Dade County Specifications. *The best evidence of this is a certificate issued by the Dade County Building Department stating that the proposed shutter products have been tested, approved, and comply with the Dade County Specifications. Non-certified shutters or products cannot be used.*

Fill out the table below. NOTE: All shaded line items are required to process the application)

A. Project Information

(1) Building Name	Highland Home School
(2) Address	19434 Montgomery Highway
(3) City, State and Zip	Highland Home, AL 36041
(4) Owner/Applicant	Crenshaw County
(5) Contact Person	School Principal
(6) Disaster Number	1605 – Hurricane Katrina
(7) Project Number	PN XXX
(8) Application Date	October 25, 2005
(9) Analyst	Case Study

B. Building Data

(1) Select Building Type	<input type="checkbox"/> Non-Engineered Wood - Wood buildings do not receive specific engineering attention. Examples include single and multi-family residences, some one- or two- story apartment units, and some small commercial buildings. <input type="checkbox"/> Non-Engineered Masonry - These masonry buildings do not receive specific engineering attention. Examples include single and multi-family residences, some one- or two- story apartment units, and some small commercial buildings. <input type="checkbox"/> Manufactured Building - These buildings are typically light metal structures or manufactured housing units (e.g., mobile homes). Manufactured buildings are produced in large numbers of identical or similar units. <input type="checkbox"/> Lightly Engineered - These buildings may combine masonry with steel framing, open-web steel joists, wood framing, and wood rafters. Some parts of the building receive engineering attention while others do not. Examples include motels, commercial, and light industrial buildings. <input checked="" type="checkbox"/> Fully Engineered - Usually these buildings are designed for a specific site and thus receive specific, individualized design attention from professional architects and engineers. Examples include high-rise office and hotel buildings, hospitals, and most public buildings. <input type="checkbox"/> Other - These buildings do not fit into any of the descriptions listed above.
(2) Building Site (Miles Inland)	100 miles
(3) Number of Stories Above	Single Story
(4) Construction Date	1992

B. Building Data

(5) Historic Building Controls None

(6) Disaster Number 1605 Hurricane Katrina

C. Building Size and Use

(1) Total Floor Area (SF) 14,000 SF

(2) Area Occupied by Owner or Public/Non-Profit Agencies 14,000 SF

D. Building Value

(1) Building Replacement Value \$2,100,000

(2) Demolition Threshold 50%

E. Building Contents

(1) Contents Description Books, computers, lab equipment, supplies, etc.

(2) Total Value of Contents \$2,000,000

F. Displacement Costs Due to Wind

(1) Rental Cost of Temporary Building Space (\$/sf/month)

(2) Other Displacement Costs (\$/month)

G. Value of Public Non-Profit Service

(1) Description of Services Provided Education

(2) Annual Budget of Public Non-Profit Agencies \$3,500,000

(3) Post Disaster Continuity Premium (\$/day) N/A

H. Rent and Business Income

(1) Total Monthly Rent from all Tenants (\$/month)

(2) Estimated Net Income of Commercial Businesses (\$/month)

I. Mitigation Project Data

(1) Project Description Shuttering

(2) Project Useful Life (Years) 25 years

I. Mitigation Project Data - continued

(3) Mitigation Project Costs	\$74,200
(4) Base Year of Costs	2005
(5) Annual Maintenance Costs (\$/year)	

J. Temporary Relocation Costs

- (1) Relocation Time Due to Project (months)
- (2) Rental Cost During Occupant Relocation (\$/month)
- (3) Other Relocation Costs (\$/month)